

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SURFACE WATER

PROJECT NO.	PROJECT NAME	2007	2008	2009	2010	2011	TOTAL
SW0603	Distribution System Upgrades		338,000	320,000	414,000		1,072,000
SW0701	Non-Potable Water Opportunities	600,000	500,000				1,100,000
SW0801	Surface Water Conversion Transmission Line		350,000		750,000	7,750,000	8,850,000
SW0802	Surface Water Treatment Plant		1,275,000	2,250,000		22,900,000	26,425,000
SW0901	Water Plant Upgrades for Surface Water Conversion			60,000	195,000	1,750,000	2,005,000
	TOTAL	\$600,000	\$2,463,000	\$2,630,000	\$1,359,000	\$32,400,000	\$39,452,000

SOURCE OF FUNDS-SURFACE WATER	2007	2008	2009	2010	2011	TOTAL
General Revenue						
Revenue Bonds		1,275,000	2,250,000		30,650,000	34,175,000
SLDC						
SL4B						
Airport Revenues						
System Revenues	600,000	1,188,000	380,000	1,359,000	1,750,000	5,277,000
Connection Fees						
Other Funding Sources						
Unfunded						
TOTAL	\$600,000	\$2,463,000	\$2,630,000	\$1,359,000	\$32,400,000	\$39,452,000

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SUMMARY BY FUNDING SOURCES - SURFACE WATER

PROJECT NAME	2007	2008	2009	2010	2011	TOTAL
Surface Water Treatment Plant		1,275,000	2,250,000		22,900,000	26,425,000
Surface Water Conversion Transmission Line					7,750,000	7,750,000
TOTAL - REVENUE BONDS		\$1,275,000	\$2,250,000		\$30,650,000	\$34,175,000

PROJECT NAME	2007	2008	2009	2010	2011	TOTAL
Non-Potable Water Opportunities	600,000	500,000				1,100,000
Distribution System Upgrades		338,000	320,000	414,000		1,072,000
Surface Water Conversion Transmission Line		350,000		750,000		1,100,000
Water Plant Upgrades for Surface Water Conversion			60,000	195,000	1,750,000	2,005,000
TOTAL - SYSTEM REVENUES	\$600,000	\$1,188,000	\$380,000	\$1,359,000	\$1,750,000	\$5,277,000

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SUMMARY - SURFACE WATER

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
SW0603	Distribution System Upgrades	City's participation for design and construction of multi-phased varying sized large diameter distribution trunk mains throughout the south and north water systems. City's participation includes cost of upsizing the proposed water mains to meet the City's Water Master Plan recommendations. Timing of all phased construction is developer driven.	Per the Water Master Plan recommendations the proposed water line extensions will be required to maintain water system delivery hydraulics and system pressures if existing and future development continues as projected. The upsizing will also accommodate future distribution of surface water from the proposed water plant take points.
SW0701	Non-Potable Water Opportunities	Funding for the continued evaluation and possible construction of pump stations and transmission lines for non-potable uses.	The use of surface water by Telfair will provide the City with subsidence district credits that will decrease the costs proposed for the surface water plan by allowing the City to downsize or delay future construction of surface water plant or offset costs by marketing the credits. These credits represent an avoidance of costs that outweighs the investment in infrastructure.
SW0801	Surface Water Conversion Transmission Line	Construction of transmission lines from a future surface water treatment plant to Lakeview Water Plant and another water plant (to be determined) in preparation of surface water delivery for required conversion to surface water.	The City must convert 30% of water usage from groundwater to surface water by 2013. In order to utilize available surface water capacity, the existing water plants nearest the source of the surface water should be converted to allow for use of this surface water source and a transmission line must be constructed to bring the surface water to the plant.

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SUMMARY - SURFACE WATER

PROJECT NO.	PROJECT NAME	PROJECT DESCRIPTION	JUSTIFICATION
SW0802	Surface Water Treatment Plant	Phase I Water Production supply conversion from ground water to surface water. Phase I will consist of construction of a 10 MGD surface water treatment plant on a approximately 20 acre site near Gannoway Lake. Ultimate plant capacity of 20 MGD will be required by 2025.	The City must convert 30% of water usage from groundwater to surface water by 2013 and to 60% of surface water by 2025. A recently completed surface water study has determined the most cost effective method of providing the surface water conversion is with a City owned and operated treatment plant.
SW0901	Water Plant Upgrades for Surface Water Conversion	Construction of water plant upgrades at Lakeview Water Plant and another water plant (to be determined) in preparation of surface water conversion, as take points for surface water delivery. Upgrades will include installation of a 1.5 MG GST at Lakeview Plant and upsizing of booster pump capacities and suction and distribution headers as needed.	The City must convert 30% of water usage from groundwater to surface water by 2013. In order to utilize available surface water capacity, the existing water plants nearest the source of the surface water should be converted to allow for use of this surface water source.

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SURFACE WATER

PROJECT NO. SW0603	PROJECT TITLE Distribution System Upgrades									
DESCRIPTION City's participation for design and construction of multi-phased varying sized large diameter distribution trunk mains throughout the south and north water systems. City's participation includes cost of upsizing the proposed water mains to meet the City's Water Master Plan recommendations. Timing of all phased construction is developer driven.					IMPACT ON OPERATING BUDGET					
					Expenditures	2007	2008	2009	2010	2011
					Personnel Services					
					Operations & Maintenance					
					Capital					
JUSTIFICATION Per the Water Master Plan recommendations the proposed water line extensions will be required to maintain water system delivery hydraulics and system pressures if existing and future development continues as projected. The upsizing will also accommodate future distribution of surface water from the proposed water plant take points.					TOTAL					
PROJECT COSTS	Project Budget To Date	FISCAL YEAR PLAN					Project Total			
		BUDGET	ESTIMATED							
		2007	2008	2009	2010	2011				
Preliminary Engineering Report										
Land/Right of Way										
Design/Surveying										
Construction	116,610		338,000	320,000	414,000		1,188,610			
Equipment and Furniture										
Contingency										
TOTAL COSTS	\$116,610		\$338,000	\$320,000	\$414,000		\$1,188,610			
SOURCE OF FUNDS	Project Budget To Date	FISCAL YEAR PLAN					Project Total			
		BUDGET	ESTIMATED							
		2007	2008	2009	2010	2011				
General Revenue										
Revenue Bonds										
SLDC										
SL4B										
Airport Revenues										
System Revenues	116,610		338,000	320,000	414,000		1,188,610			
Connection Fees										
Other Funding Sources										
TOTAL SOURCE	\$116,610		\$338,000	\$320,000	\$414,000		\$1,188,610			
PROJECT SCHEDULE	START (MTH, YEAR)		FINISH (MTH, YEAR)		OTHER:					
Preliminary Engineering Report										
Land/Right of Way										
Design/Surveying										
Construction	TBD									
Equipment and Furniture										
Contingency										
TOTAL PROJECT										

City Goal:

Reference: Water Master Plan

Project Manager: Chad Nesvadba

Estimator: Chad Nesvadba

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SURFACE WATER

PROJECT NO. SW0701	PROJECT TITLE Non-Potable Water Opportunities									
DESCRIPTION Funding for the continued evaluation and possible construction of pump stations and transmission lines for non-potable uses.					IMPACT ON OPERATING BUDGET					
					Expenditures	2007	2008	2009	2010	2011
					Personnel Services					
					Operations & Maintenance					
					Capital					
JUSTIFICATION The use of surface water by Telfair will provide the City with subsidence district credits that will decrease the costs proposed for the surface water plan by allowing the City to downsize or delay future construction of surface water plant or offset costs by marketing the credits. These credits represent an avoidance of costs that outweighs the investment in infrastructure.										
					TOTAL					
PROJECT COSTS	Project Budget To Date	FISCAL YEAR PLAN					Project Total	LOCATION TO BE DETERMINED		
		BUDGET	ESTIMATED							
		2007	2008	2009	2010	2011				
Preliminary Engineering Report										
Land/Right of Way										
Design/Surveying										
Construction		600,000	500,000				1,100,000			
Equipment and Furniture										
Contingency										
TOTAL COSTS		\$600,000	\$500,000				\$1,100,000			
SOURCE OF FUNDS	Project Budget To Date	FISCAL YEAR PLAN					Project Total	LOCATION TO BE DETERMINED		
		BUDGET	ESTIMATED							
		2007	2008	2009	2010	2011				
General Revenue										
CO's										
GO Bonds										
SLDC										
SL4B										
Airport Revenues										
System Revenues		600,000	500,000				1,100,000			
Connection Fees										
Other Funding Sources										
TOTAL SOURCE		\$600,000	\$500,000				\$1,100,000			
PROJECT SCHEDULE	START (MTH, YEAR)		FINISH (MTH, YEAR)		OTHER:			City Goal: Safe City Reference: Project Manager: Justin Bower Estimator:		
Preliminary Engineering Report										
Land/Right of Way										
Design/Surveying										
Construction	Oct-06	2008								
Equipment and Furniture										
Contingency										
TOTAL PROJECT										


CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SURFACE WATER

PROJECT NO. SW0801	PROJECT TITLE Surface Water Conversion Transmission Line							
DESCRIPTION Construction of transmission lines from a future surface water treatment plant to Lakeview Water Plant and another water plant (to be determined) in preparation of surface water delivery for required conversion to surface water.			IMPACT ON OPERATING BUDGET					
			Expenditures	2007	2008	2009	2010	2011
			Personnel Services					
			Operations & Maintenance					
JUSTIFICATION The City must convert 30% of water usage from groundwater to surface water by 2013. In order to utilize available surface water capacity, the existing water plants nearest the source of the surface water should be converted to allow for use of this surface water source and a transmission line must be constructed to bring the surface water to the plant.			Capital					
			TOTAL					

PROJECT COSTS	Project Budget To Date	FISCAL YEAR PLAN					Project Total
		BUDGET	ESTIMATED				
		2007	2008	2009	2010	2011	
Preliminary Engineering Report			100,000				100,000
Land/Right of Way			250,000				250,000
Design/Surveying					750,000		750,000
Construction						7,750,000	7,750,000
Equipment and Furniture							
Contingency							
TOTAL COSTS			\$350,000		\$750,000	\$7,750,000	\$8,850,000

SOURCE OF FUNDS	Project Budget To Date	FISCAL YEAR PLAN					Project Total
		BUDGET	ESTIMATED				
		2007	2008	2009	2010	2011	
General Revenue							
Revenue Bonds						7,750,000	7,750,000
SLDC							
SL4B							
Airport Revenues							
System Revenues			350,000		750,000		1,100,000
Connection Fees							
Other Funding Sources							
TOTAL SOURCE			\$350,000		\$750,000	\$7,750,000	\$8,850,000

PROJECT SCHEDULE	START (MTH, YEAR)	FINISH (MTH, YEAR)	OTHER:
Preliminary Engineering Report	2008	2008	
Land/Right of Way	2008	2009	
Design/Surveying	2010	2010	
Construction	2011	2012	
Equipment and Furniture			
Contingency			
TOTAL PROJECT			



Water Plants to Receive Surface Water and Alignment of Transmission Mains to be Determined

City of Sugar Land
Capital Improvement Program

City Goal:	Responsible City Government
Reference:	Water Master Plan
Project Manager:	Chad Nesvadba
Estimator:	Chad Nesvadba

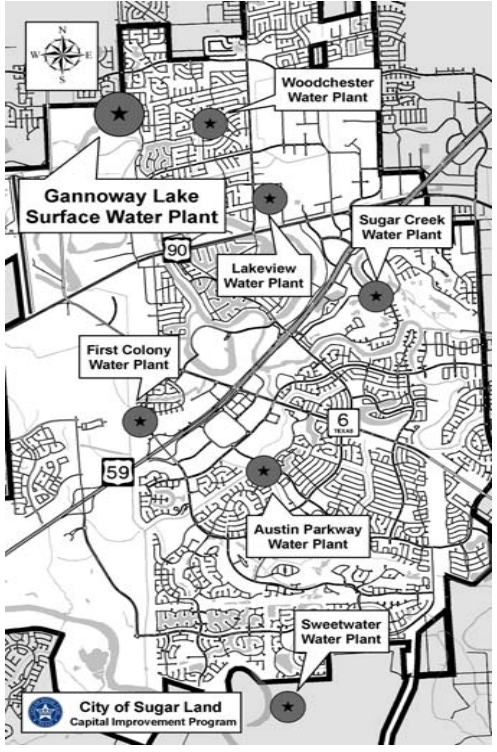
CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SURFACE WATER

PROJECT NO. SW0802	PROJECT TITLE Surface Water Treatment Plant										
DESCRIPTION Phase I Water Production supply conversion from ground water to surface water. Phase I will consist of construction of a 10 MGD surface water treatment plant on a approximately 20 acre site near Gannoway Lake. Ultimate plant capacity of 20 MGD will be required by 2025.					IMPACT ON OPERATING BUDGET						
					Expenditures	2007	2008	2009	2010	2011	
					Personnel Services						
					Operations & Maintenance						
JUSTIFICATION The City must convert 30% of water usage from groundwater to surface water by 2013 and to 60% of surface water by 2025. A recently completed surface water study has determined the most cost effective method of providing the surface water conversion is with a City owned and operated treatment plant.					Capital						
					TOTAL						

PROJECT COSTS	Project Budget To Date	FISCAL YEAR PLAN					Project Total
		BUDGET	ESTIMATED				
		2007	2008	2009	2010	2011	
Preliminary Engineering Report			150,000				150,000
Land/Right of Way			1,125,000				1,125,000
Design/Surveying				2,250,000			2,250,000
Construction						22,900,000	22,900,000
Equipment and Furniture							
Contingency							
TOTAL COSTS			\$1,275,000	\$2,250,000		\$22,900,000	\$26,425,000

SOURCE OF FUNDS	Project Budget To Date	FISCAL YEAR PLAN					Project Total
		BUDGET	ESTIMATED				
		2007	2008	2009	2010	2011	
General Revenue							
Revenue Bonds			1,275,000	2,250,000		22,900,000	26,425,000
SLDC							
SL4B							
Airport Revenues							
System Revenues							
Connection Fees							
Other Funding Sources							
TOTAL SOURCE			\$1,275,000	\$2,250,000		\$22,900,000	\$26,425,000

PROJECT SCHEDULE	START (MTH, YEAR)	FINISH (MTH, YEAR)	OTHER:
Preliminary Engineering Report	2008	2009	
Land/Right of Way	2008	2009	
Design/Surveying	2009	2010	
Construction	2010	2011	
Equipment and Furniture			
Contingency			
TOTAL PROJECT			



City of Sugar Land
Capital Improvement Program

City Goal:	Responsible City Government
Reference:	Water Master Plant
Project Manager:	Justin Bower
Estimator:	Justin Bower

CITY OF SUGAR LAND
2007 - 2011 CAPITAL IMPROVEMENT PROGRAM
SURFACE WATER

PROJECT NO. SW0901	PROJECT TITLE Water Plant Upgrades for Surface Water Conversion										
DESCRIPTION Construction of water plant upgrades at Lakeview Water Plant and another water plant (to be determined) in preparation of surface water conversion, as take points for surface water delivery. Upgrades will include installation of a 1.5 MG GST at Lakeview Plant and upsizing of booster pump capacities and suction and distribution headers as needed.					IMPACT ON OPERATING BUDGET						
					Expenditures	2007	2008	2009	2010	2011	
					Personnel Services						
					Operations & Maintenance						
					Capital						
JUSTIFICATION The City must convert 30% of water usage from groundwater to surface water by 2013. In order to utilize available surface water capacity, the existing water plants nearest the source of the surface water should be converted to allow for use of this surface water source.					TOTAL						

PROJECT COSTS	Project Budget To Date	FISCAL YEAR PLAN					Project Total
		BUDGET	ESTIMATED				
		2007	2008	2009	2010	2011	
Preliminary Engineering Report				60,000			60,000
Land/Right of Way							
Design/Surveying					195,000		195,000
Construction						1,750,000	1,750,000
Equipment and Furniture							
Contingency							
TOTAL COSTS				\$60,000	\$195,000	\$1,750,000	\$2,005,000

SOURCE OF FUNDS	Project Budget To Date	FISCAL YEAR PLAN					Project Total
		BUDGET	ESTIMATED				
		2007	2008	2009	2010	2011	
General Revenue							
Revenue Bonds							
SLDC							
SLAB							
Airport Revenues							
System Revenues				60,000	195,000	1,750,000	2,005,000
Connection Fees							
Other Funding Sources							
TOTAL SOURCE				\$60,000	\$195,000	\$1,750,000	\$2,005,000

PROJECT SCHEDULE	START (MTH, YEAR)	FINISH (MTH, YEAR)	OTHER:
Preliminary Engineering Report	2009	2009	
Land/Right of Way			
Design/Surveying	2010	2010	
Construction	2011	2011	
Equipment and Furniture			
Contingency			
TOTAL PROJECT			

City Goal:	Well Planned Community
Reference:	WA0501
Project Manager:	Chad Nesvadba
Estimator:	Chad Nesvadba